Building an Information System for a Higher Education Register in Croatia

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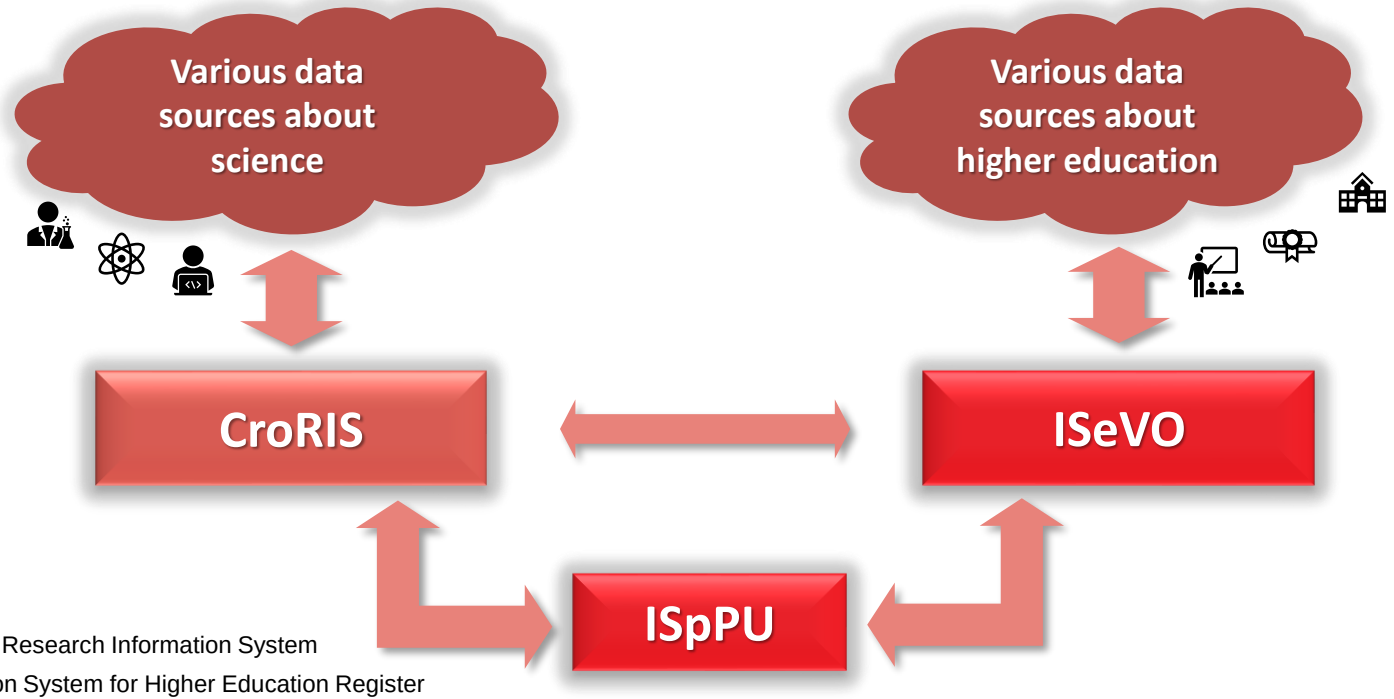
Content

- Vision and Objective
- Information Landscape of a Higher Education in Croatia
- System Design
- Development approach
- Conclusion

Vision

National information systems for science and higher education



CroRIS = Croatian Research Information System

ISeVO = Information System for Higher Education Register

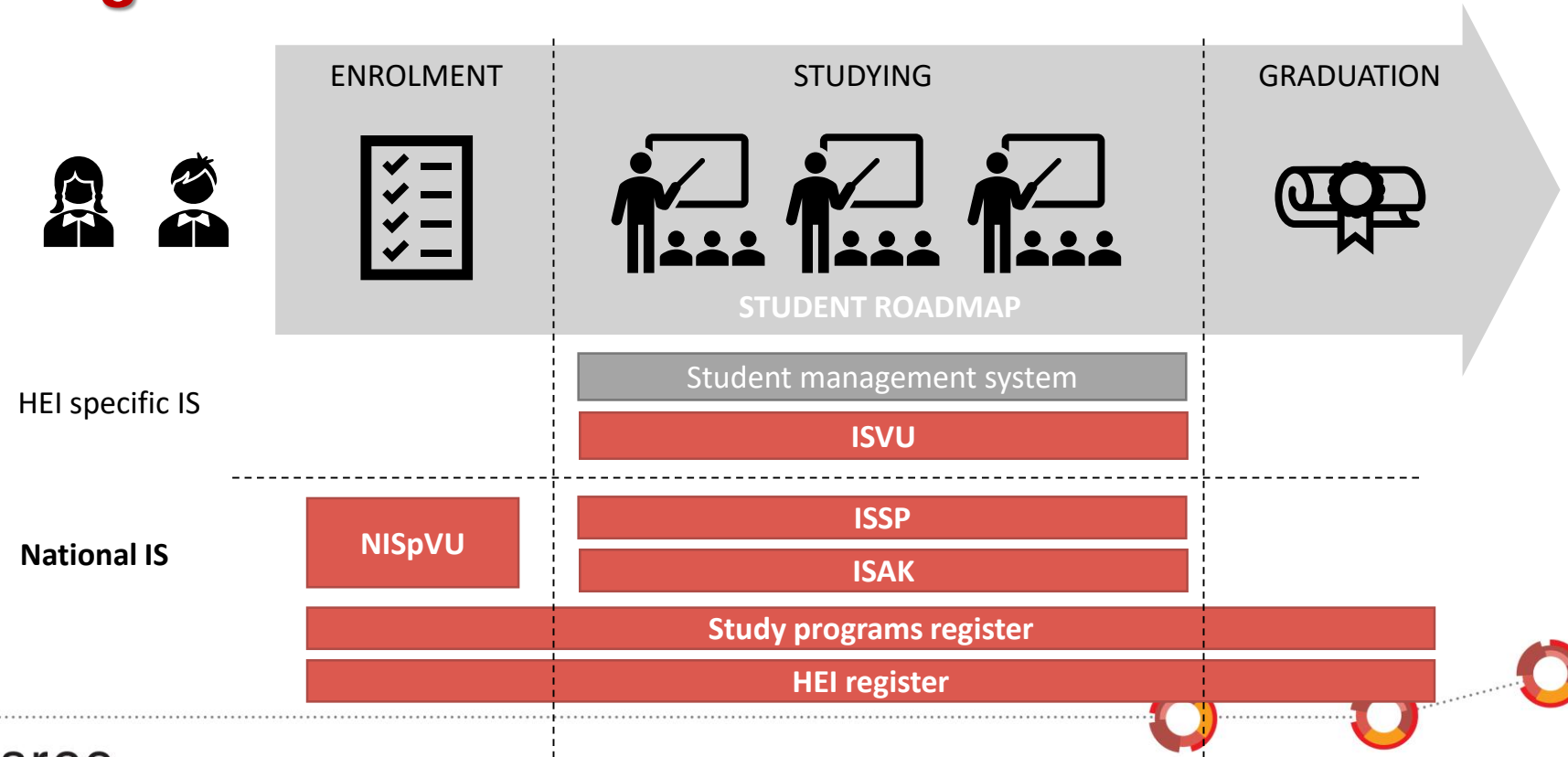
ISpPU = Information System for Monitoring Program Contracts

The Objective

SINGLE SOURCE OF TRUTH

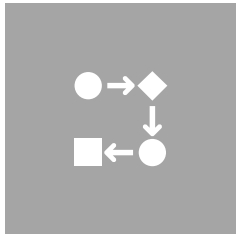
DECISIONS BASED ON EVIDENCE

Information Landscape of a Higher Education in Croatia



System Design

Users



Processes

Data

Architecture

Users

- Ministry of Science and Education
- Agencies
- Higher education institutions
- Business entities providing services to students
- Students
- Public

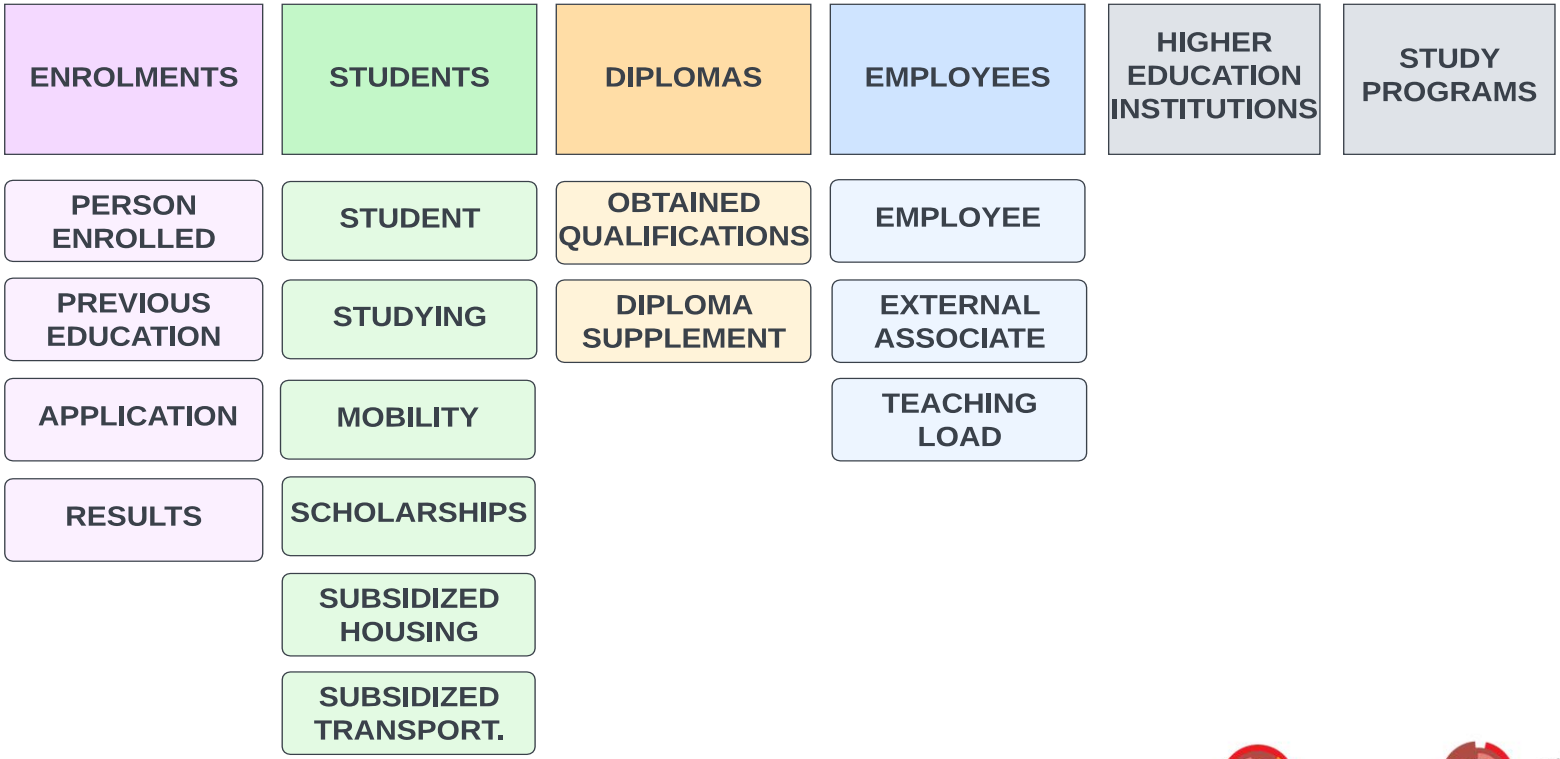
Main Processes

» Data collection, delivery and storage

» Calculation of student rights for student nourishment and student work

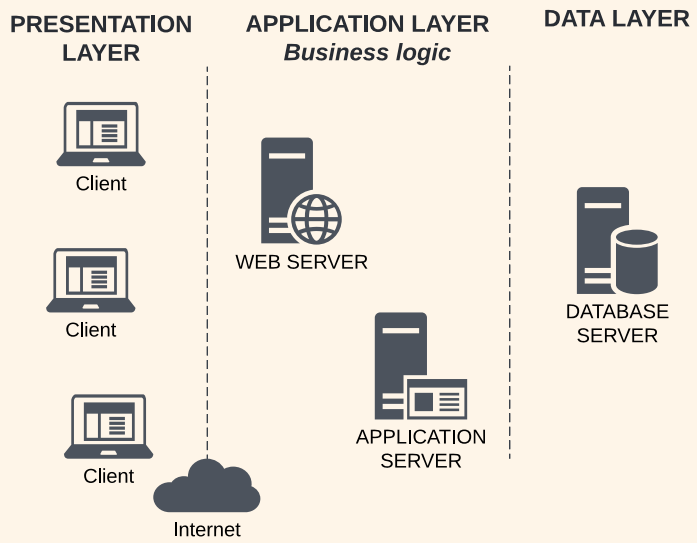
» Analysis and reporting

Data Model and Subject Areas

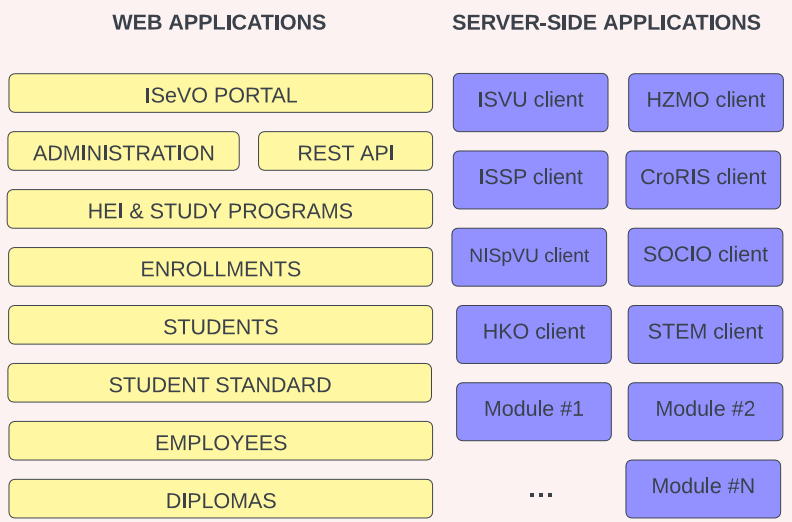


Architecture and Software Modules

System Architecture



Software Modules

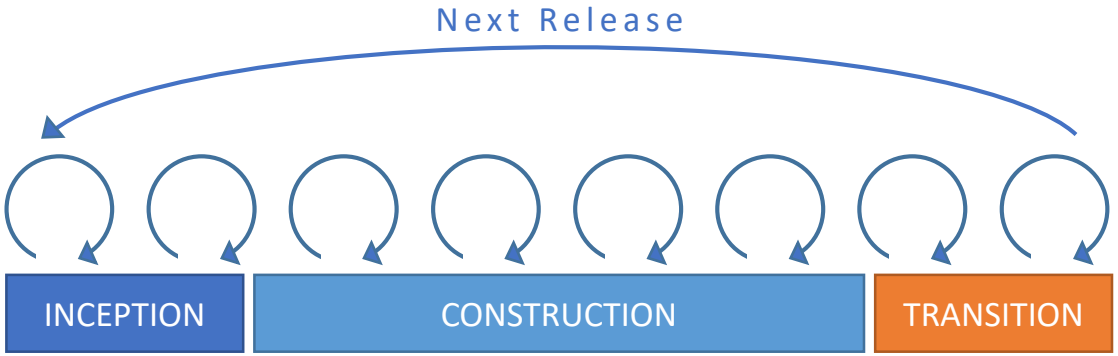


Development Approach

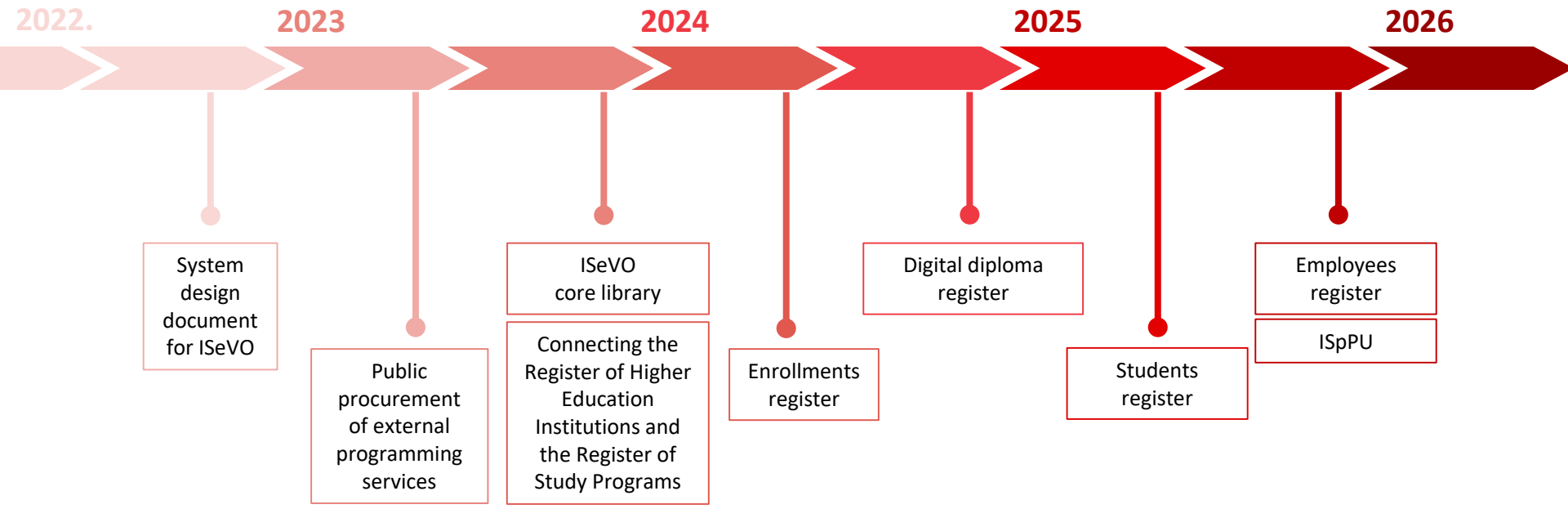
Agile Development Approach

Basic idea

- Enable quick delivery of valuable parts of the system
- Constantly develop and upgrade software modules with additional features
- Have end-users and stakeholders involved in the project all the time



Project Milestones



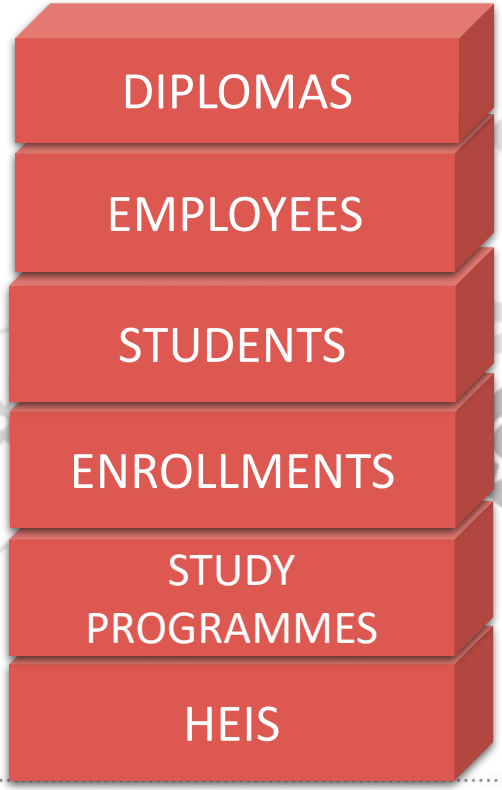
Anticipated Challenges

- Heterogeniety of data sources
- Engagement of stakeholders and end-users
- Resistance to change
- Lack of resources and short deadlines

Current Status of the Project

- Public procurement process for external programming services
- Preparation of the development environment
- Development of web application for connecting the Register of Higher Education Institutions and the Register of Study Programs

Conclusion



- New Registers to be build:

  Enrollments, Students, Employees, Diplomas

- A lot of work ahead of us, big impact on existing systems
- Have in mind final goal, objective and vision

Data collection from various sources

THE source of truth

Strong emphasis on analysis and reporting

Questions and Comments?

Thank you!

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otvoreni pristup

University Computing Centre - Srce

- founded in 1971, part of the University of Zagreb
- is heart of Croatian academic and research e-infrastructure
- is one of the key subjects in planning, designing, construction and maintenance of the advanced computing, communication and information systems and services for A&R community in HR
- ensures connection of Croatian A&R e-infrastructure with related European and global e-infrastructures
- provides consulting, expert and educational support in the field of ICT to all subjects of the academic and research community
- promotes, fosters and supports innovative usage of ICT in education and research
- ~160 employees
- 2 data centers

e-Sveučilišta Project

- Investment: **Digital transformation of higher education**
- Investment holder: Ministry of Science and Education
- Project coordinator: Croatian Academic and Research Network - CARNET
- Project value: 84 million euros
- Implementation period: 1.3.2022. - 31.12.2025.
- Partners:
  - University Computing Center (Srce)
  - Agency for Science and Higher Education (AZVO)
  - National University Library (NSK)

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NextGenerationEU

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e-Sveučilišta

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